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**Kyle A Roy\*** ([royka@miamioh.edu](mailto:royka@miamioh.edu)), 325 Foxfire Drive #111, Oxford, OH 45056. *Facet ideals of trees and free resolutions of Stanley-Reisner ideals.*

Given a simplicial complex  $\Delta$  we can associate to  $\Delta$  a certain square-free monomial ideal commonly called the Stanley-Reisner ideal of  $\Delta$ . In general, Hochster's Formula gives a way to compute the betti numbers of these ideals. For certain simplicial complexes, we compute the graded betti numbers of these Stanley-Reisner ideals, by observing that Hochster's Formula takes a particularly nice form in these cases. (Received July 15, 2014)